

CALCULATION TECHNIQUE

ABOVETABLE X-RAY SOURCE RADIOGRAPHIC SYSTEMS

SUPPLEMENTARY CALCULATIONS

FOR WALL CASSETTE

K. PBL X-RAY FIELD/WALL CASSETTE SIZE COMPARISON

1. Refer to data item 60, 61, and 62 and record at Results 75 - 77. Convert any item given in inches to centimeters prior to recording on the results record.
2. Refer to data items 63, 64, and 66 and calculate the vertical and horizontal x-ray field dimensions:

vertical dimensions (VER) = data items 63 x ALCF x ISID / (ISID - data item 66)

horizontal dimensions (HOZ) = data item 64 x ACCF x ISID / (ISID - data item 66)

Record these values at Results 78 and 79.

3. Calculate the vertical and horizontal differences, the percent differences, and the sum of percent differences in the vertical and horizontal direction:

vertical difference = VER - Result 75

horizontal difference = HOZ - Result 76

% vertical difference = (vertical difference x 100) / ISID

% horizontal difference = (horizontal difference x 100) / ISID

sum % differences vertical + horizontal = abs (% vertical diff) + abs (% horizontal diff)

where ISID is Result 77. Record at results 80-84.

L. X-RAY FIELD/WALL CASSETTE CENTERS COMPARISON

1. Refer to data item 67 and record at Result 85.
2. Calculate the centers misalignment as a percent of the indicated SID (Result 77):

% centers misalignment = (Result 85 x 100) / Result 77

Record the percent centers misalignment at Result 86.